



Attorney Docket No. SAA-19-1 (WWR 402 P 318)

PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In Re Continuation Patent Application Of:)	Prior Pending Application:
)	U.S. Patent Application
Charles J. Klindt et al.)	Serial No.: 09/223,349
)	Filed: December 30, 1998
Application No.: 10/601,143)	Prior Examiner: R. Hartman Jr.
)	Group Art Unit: 2121
Filed: June 20, 2003)	
FOR: Interface To A Programmable Controller)	Present Application:
)	Examiner: Not Yet Assigned
)	Group Art Unit: Not Yet Assigned

Commissioner for Patents
P. O. Box 1450
Alexandria, Virginia 22313-1450

TRANSMITTAL OF INFORMATION DISCLOSURE STATEMENT

Dear Sir:

Applicants submit herewith Form PTO-1449, "Information Disclosure Statement." The present application is a continuation application of co-pending U.S. application No. 09/223,349 filed December 30, 1998, to which the above-identified Application claims priority under 35 U.S.C. §120. Accordingly, copies of patents, publications, or other information previously cited by or submitted to the U.S. Patent and Trademark Office in the prior applications are not provided pursuant to 37 C.F.R. § 1.98(d).

It is requested that the listed references be made of record and included in the "References Cited" portion of any patent issuing from this application.

Since this Information Disclosure Statement is being filed before the mailing date of a First Office Action on the merits, no fee is necessary. The Commissioner is hereby

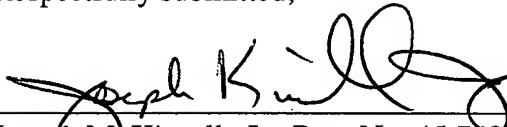
Attorney Docket No. SAA-19-1 (402 P 318)
Transmittal of Information Disclosure Statement
In Re U.S. Continuation Patent Application of: Charles J. Klindt et al.
U.S. Application No. 10/601,143 Filed: June 20, 2003
Page 2

authorized to charge payment of any deficit in fees to Deposit Account No. 19-3875. A duplicate copy of this sheet is enclosed for that purpose.

Respectfully submitted,

Dated: September 26, 2003

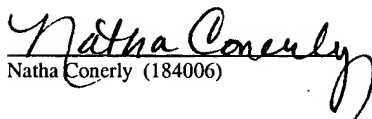
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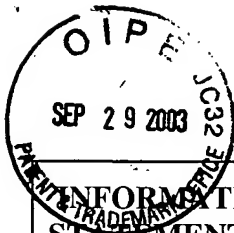

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CERTIFICATE OF MAILING (37 C.F.R. § 1.8a)

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PTO-1449

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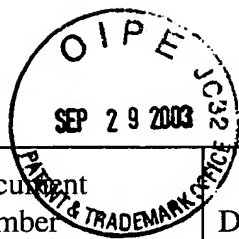
Attorney Docket No.: SAA-19-1 (402P318)
Appln. No.: 10/601,143
Applicants: Charles J. Klindt et al.
Filing Date: 6/20/03
Art Unit: Not Yet Assigned

U.S. PATENT DOCUMENTS

Examiner Initial	Document Number	Date	Name
	*3,971,000	07/20/76	Cromwell
	*4,319,338	03/09/82	Grudowski et al.
	*4,688,167	08/18/87	Agarwal
	*4,845,644	07/04/89	Anthias et al.
	*4,858,152	08/15/89	Estes
	*4,897,777	01/30/90	Janke et al.
	*4,912,623	03/27/90	Rantala et al.
	*4,937,777	06/26/90	Flood et al.
	*4,949,274	08/14/90	Hollander et al.
	*4,953,074	08/28/90	Kametani et al.
	*4,992,926	02/12/91	Janke et al.
	*5,012,402	04/30/91	Akiyama
	*5,023,770	06/11/91	Siverling
	*5,047,959	09/10/91	Phillips et al.
	*5,072,356	12/10/91	Watt et al.
	*5,072,412	12/10/91	Henderson, Jr. et al.
	*5,109,487	04/28/92	Ohgomori et al.
	*5,122,948	06/16/92	Zapolin
	*5,131,092	07/14/92	Sackmann et al.



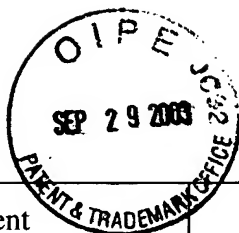
Examiner Initial	Number	Date	Name
	*5,134,574	07/28/92	Beaverstock et al.
	*5,151,896	09/29/92	Bowman et al.
	*5,151,978	09/29/92	Bronikowski
	*5,157,595	10/20/92	Lovenrich
	*5,159,673	10/27/92	Sackmann et al.
	*5,161,211	11/03/92	Taguchi et al.
	*5,165,030	11/17/92	Barker
	*5,179,700	01/12/93	Aihara et al.
	*5,225,974	07/06/93	Matthews et al.
	*5,245,704	09/14/93	Weber et al.
	*5,251,302	10/05/93	Weigl et al.
	*5,283,861	02/01/94	Dangler et al.
	*5,297,257	03/22/94	Struger et al.
	*5,307,463	04/26/94	Hyatt et al.
	*5,321,829	06/14/94	Zifferer
	*5,349,675	09/20/94	Fitzgerald et al.
	*5,398,336	03/14/95	Tantry et al.
	*5,406,473	04/11/95	Yoshikura et al.
	*5,420,977	05/30/95	Sztipanovits et al.
	*5,440,699	08/08/95	Farrand et al.
	*5,446,868	08/29/95	R. A. Gardea, et al.
	*5,528,503	06/18/96	Moore et al.
	*5,598,536	01/28/97	Slaughter, III et al.
	*5,613,115	03/18/97	Gihl et al.
	*5,623,652	04/22/97	Vora et al.
	*5,625,781	04/29/97	Cline et al.



Examiner Initial	Document Number	Date	Name
	*5,699,350	12/16/97	Kraslavsky
	*5,734,831	03/31/98	Sanders
	*5,790,977	08/04/98	Ezekiel
	*5,805,442	09/08/98	Crater et al.
	*5,862,391	01/19/99	Salas et al.
	5,926,621	07/20/99	Schwartz et al.
	*5,950,006	09/07/99	Crater et al.
	5,956,491	09/21/99	Marks
	*5,975,737	11/02/99	Crater et al.
	*5,982,362	11/09/91	Crater et al.
	*5,997,167	12/07/99	Crater et al.
	*6,041,287	03/21/00	Dister et al.
	*6,061,603	05/09/00	Papadopoulos
	*6,061,721	05/09/00	Ismael
	*6,085,238	07/04/00	Yuasa et al.
	*6,108,662	08/22/00	Hoskins et al.
	*6,151,625	11/21/00	Swales et al.
	*6,157,864	12/05/00	Schwenke et al.
	*6,167,406	12/26/00	Hoskins et al.
	*6,201,996	03/13/01	Crater
	*6,268,348	07/31/01	Stripf
	*6,282,454	08/28/01	Papadopoulos

FOREIGN PATENT DOCUMENTS

Examiner Initial	Document Number	Date	Country	Trans.
	*EP 0 814 393 A1	29.12.1997	Europe	Yes
	*WO 97/18636	22.5.1997	PCT	Yes
	*WO 98/53581	26.11.1998	PCT	Yes
	*DE 296 00 609 U1	27.03.1997	Germany	No
	*0 542 657 A1	19.05.1993	EPO	Yes



Examiner Initial	Document Number	Date	Country	Trans.
	*DE 196 15 093 A1	23.10.1997	Germany	Yes
	*DE 44 0 171 C1	13.04.1997	Germany	Yes



OTHER DOCUMENTS

Examiner Initial	
	*When Technology Standards Become Counterproductive, Kenneth C. Crater, President, Control Technology Corporation, Hopkinton, MA dated 7/9/99, Pages 1-5.
	*A White Paper State Language for Machine Control, Kenneth C. Crater, President, Control Technology Corporation, Hopkinton, MA dated 7/9/99, Pages 1-11.
	*New PC-based Process Control & Data Acquisition Software Integrates Remote Internet Capabilities with Fast Pentium Support, Fred A. Putnam, LABTECH President, Pages 1-3.
	*August 1996 CONTROL Magazine - In The News – Electric Utility Industry Embarks on Automation Overhaul, pages 1-10.
	*July 1997 CONTROL Magazine – Magazine Software Review – NT Package Give Plant Access Through the Web, pages 1-3.
	*October 1996 CONTROL Magazine – Software Review - Article Archives, pages 1-2.
	*ICS Instrumentation & Control Systems – Windows NT for real-time control: Which way to go? - ICS Magazine, pages 1-8.
	*I&CS July 1999 - SPECIAL REPORT SOFTWARE - Software: Open source OSs, objects, Web-based communications challenge status quo, (Wayne Labs, Senior Technical Editor), pages 24-49.
	*Landis & Staefa MS 2000, pages 1-2.
	*Landis & Staefa Standards and Open Protocols Integration System Architecture, page 1.
	*Annabooks Bookstore, Programming and Interfacing the 8051, by Sencer Yeralan and Asutosh Ahluwalia, pages 1-2.
	*SoftPLC Corporation - Java Support in SoftPLC Corp. Products, pages 1-5.
	*Mach J. Company, MachJ, an embeddable, clean room Java Virtual Machine, page 1.
	*SoftPLC Corporation - The History of Programmable Controllers, Looking



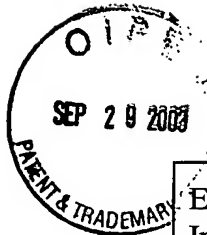
Examiner Initial	
	Back From the Year 2000 A.D. (Or, How Computers Replaced Proprietary PLC=S), pages 1-7
	*SoftPLC Corporation - TOPDOC: Advanced PLC program development & documentation software, pages 1-12.
	*Control Engineering Online Magazine Articles (July 1998) - No, that=s not a PC, it=s a PLC, pages 1-2.
	*Rockwell International Corporation, Allen-Bradley Introduces PLC-5/80E Controller for Ethernet Communication Networks.
	*Rockwell Automation – Search Results, pages 1-2.
	*Rockwell International Corporation, Vision & Direction, The Direction of Automation Systems, pages 1-4.
	*Rockwell International Corporation, Vision & Direction, The Role of Open Systems, pages 1-4.
	*Rockwell International Corporation - Vision & Direction - The Direction of Automation Systems - Emergence of Application-Specific Control Solutions, pages 1-2.
	*Rockwell International Corporation - Vision & Direction - The Direction of Automation Systems - The New Factory Worker, pages 1-2.
	*Rockwell International Corporation, Vision & Direction, Control System Deliverables - The Next Step, pages 1-2.
	*Rockwell International Corporation, Vision & Direction, Conclusion & Acknowledgments, pages 1-2.
	*Rockwell International Corporation - Choices - Perspectives on the Future of Automation Control, page 1.
	*Rockwell International Corporation - Allen-Bradley - Networks - Ethernet for Industrial Control - An Ethernet White Paper - April 21, 1998, pages 1-13.
	*Rockwell International Corporation - Automation Systems Control - General - World-Class Automation Systems from Allen-Bradley, Last Updated: May 7, 1998, pages 1-12.
	*PC QUEST, Dec >97 - Point, click, Control - C-Programmable controllers take the pain out of embedded control, pages 1-2.



Examiner Initial	
	*berthel - automation with imagination - PCI 100 - Programmable logic controller for SIMATIC/IBM IPC, pages 1-3.
	*YAHOO! Personalized Search Results for programmable logic controller internet access, pages 1-3.
	*SIEMENS - SIMATIC report 1/97 - New in the SIMATIC Library, pages 1-2.
	*CONTROL Magazine August 1998 B Field Test - DYNAMIC SOFTWARE MAKES CONTROL INTEGRATION EASIER, pages 1-2.
	*Design and Reuse Web Site - EDTN Network - Analyze IP Database Content - Analyze Reuse Blocks per taxonomy tree, pages 1-10.
	*Engineering Information, Inc. - Ei CPX WEB 1990-94].
	*Abstract of "High-efficient application technology of DCS from the viewpoint of users," Oka Norihito (1); Narita Tsutomu (1); (1) Yamatake-Honeywell Co., Ltd.; Otomeshon, Vol. 40, No. 2, p. 24-28, Fig. 5, Part 2, 1995. (Japan)
	*Abstract of "Users' experience with software tools for process integration. General results; Stougie, L.; Roeterink, H.J.H.; Van Wijk, A.; Stikkelman, R.M.; Nov. 1996.
	*Abstract of "Integrated design and process technology. Volume 1;" Cooke, D.; Kraemer, B.J.; Sheu, P.C.Y.; Tsai, J.P.; Mittermeir, R.; Society for Design and Process Science, p. 51-57; 1996. (USA)
	*Abstract of "Integrated design and process technology. Volume 2;" Tanik, M.M.; Bastani, F.B.; Gibson, D.; Fielding, P.J.; Society for Design and Process Science, p. 423-430, 1996. (USA)
	*Abstract of "Integrated design and process technology. Volume 2" Tanik, M.M.; Bastani, F.B.; Gibson, D.; Fielding, P.J.; Society for Design and Process Science, p. 306-312, 1996.
	*Abstract of "Need low-cost networking consider DeviceNet," W. H. Moss; InTech Vol. 43:11; p. 30-31, November 1996.
	*"Plastic Car Bodies Pass the Crash Test," mechanical engineering; Vol. 118, No. 12; December 1996.
	*"Remote Interrogation and Control of Sensors via the Internet," Sensors and Systems; Peter L. Fuhr and Euan F. Mowat; University of Vermont; pp. 25-30; December, 1999.
	*Abstract of "Implementing distributed controls for FMC's using Internet



Examiner Initial	
	utilities," S. S. Jagdale and N. Merchant; Computers of Industrial Engineering, Vol.. 31 No. 1-2, p. 87-90; October, 1996 (UK).
	*Abstract of "Process Control takes to the Net," Greg Paula, Mechanical Engineering Vol. 118 No. 12 December 1996, page 55.
	*Abstract of "Remote interrogation and control of sensors via the internet," Peter L. Furh and Euan F. Mowat; Sensors, Vol. 12 No. 12, 6 pp; December 1995.
	*Abstract of "Process control takes to the Net," G. Paula; Mechanical Engineering, Vol. 118, No. 12, p. 55, December, 1996.
	*Abstract of "Implementation of CAN/CAN bridges in distributed environments and performance analysis of bridged CAN systems using SAE benchmark," H. Ekiz, A. Kutlu and E. T. Powner; Conference Paper, IEEE Southeastern '97, Engineering the new energy, IEEE, p. 185-7, 1996.
	*Abstract of "Managing interdisciplinary project teams through the Web," R. E. Goodman and P. Chinowsky; Conference Paper, WebbNet 96 - World Conference of the Web Society, pp. 180-5, 1996.
	*Abstract of "Learning environment for a process automation system using computer networks," J. Lindfors, L. Yliniemi and K. Leivska; Conference Paper, Step '96 - Genes, Nets and Symbols, pp. 137-43, 1996 (Finland).
	*Abstract of "Distributed agent systems for intelligent manufacturing," D. H. Norrie and B. R. Gaines; Canadian Artificial Intelligence, No. 40, p. 31-3, Autumn 1996 (Canada).
	*Abstract of Proceedings of AUTOFACT 1995 Conference, "Today's Automated, Integrated Factory," Soc. Manuf., Eng., Dearborn, MI; 1995.
	*Abstract of "The ECOSSE Control HyperCourse," C. M. Merrick and J. W. Ponton; Computers & Chemical Engineering, Vol. 20, Part B, p. S 1353-8, 1996 (UK).
	*Abstract of "Chemical-better batch controls," T. Crawl; Control & Instrumentation, Vol. 28, No. 5, p. 53-4, May 1996 (UK).
	*Abstract of "Industrial software does 32-bit Windows, prepares for the net," W. Labs; I 8CS, Vol. 69, No. 3, p. 23-6, 31-4, March 1996, USA.
	*Abstract of "A case study for international remote machining," G. C. I. Lin and Kao Yung-Chou; Conference Paper, Proc. SPIE-Int. Soc. Opt. Eng., Vol. 2620, p 553-60, 1995.
	*Abstract of "Standardization of long-distance protocols," R. Dinges; Journal Paper, Generation Changes in Network Conductor Systems, ITG - Fachberichte, Vol. 134, p. 97-113, 1995 (West Germany).
	*Abstract of "Proceedings of AUTOFACT Conference," Soc. Manuf. Eng., , 684 pp., Dearborn, MI; 1993.
	*Abstract of "Control system design V. Communications orchestrate process



Examiner Initial	
	control," F. Glow; In Tech, Vol. 36, No. 9, p. 68-74, Sept. 1989.
	*Abstract of "Functions and characteristics of local networks adapted to industrial applications," J. Morlais; Electronique Industrielle, No. 97, p. 56-63, Nov. 15, 1985; France.
	*Abstract of "Intelligent supervisory control of submerged-arc furnaces," Markus A. Reuter, Carla Pretorius, Chloe West, Peter Dixon and Morne Oosthuizen, JOM Vol. 48, No. 12, Dec. 1996, p. 49-51.
	*Abstract of "Simulation on the integration of process control systems of rolling mill plants through standard networks," Choo Young Yeol, Hwang Hwa Won and Kim Cheeha, Proceedings of the Industrial Computing Conference, Instrument Society of America, Research Triangle Park, NC, USA. P 1-14; Vol. 6, No. 1, 1996.
	*Abstract of "Environmental waste control digest," Clayton H. Billings; Public Works Vol. 127 No. 7, 6 pp, June, 1996.
	*Abstract of "Experiments in tele-handling and tele-machining at the macro and micro scales, using the Internet for operational environment transmission," Mamoru Mitsuishi, Toshio Hori, Tomoharu Hikita, Masao Teratani, Takuro Watanabe, Hirofumi Nakanishi and Bruce Kramer; IEEE International Conference on Intelligent Robots and Systems Vol. 2, 1995.
	*Abstract of "A phototyping and reverse engineering system for mechanical parts-on-demand on the national network," Fred Hansen, Elias Pavlakos, Eric Hoffman, Takeo Kanade, Raj Reddy, Paul Wright; Journal of Manufacturing Systems, Vol. 12 No. 4, p. 269-281; 1993.
	*Abstract of "Mathematical model and optimization of furfural treating process," Tao Peng, Jinshou Yu and Huihe Shao; Huadong Huagong Xueyuan Xuebao/Journal of East China Institute of Chemical Technology Vol. 17 No. 1, p. 99-104; February 1991.
	*Abstract of "User's Aspect of Telecommunication and Information Processing in Plant Factory; Hashimoto Yasushi (1); Journal of the Institute of Electronics, Information and Communication Engineers, Vol. 78, NO. 5, p. 475-81, Fig. 3, Ref. 7, 1995. (Japan)
	*LabVIEW Graphical Programming for Instrumentation, Networking Reference Manual, © Copyright 1993, 1994 National Instruments Corporation, Part Number 320587B-01, September 1994.
	*LabVIEW Graphical Programming for Instrumentation, Tutorial for Windows, © Copyright 1993, 1994 National Instruments Corporation, Part Number 320593B-01, September 1994.
	*LabVIEW Graphical Programming for Instrumentation, Data Acquisition VI Reference Manual for Windows, © Copyright 1992, 1994 National Instruments Corporation, Part Number 320536B-01, September 1994.



Examiner Initial	
	*Using World-Wide Web for Control Systems,, F. Momal, C. Pinto-Pereira, AT Division CERN, 1211 Geneva 23, http://mish231.cern.ch/Docs/ICALEPCS/1995/icalep95.htm .
	*"Ethernet Base Gateway Product," AEG-Modicon, published 1991.
	*"Modicon Modbus Plus Network BM85 Bridge Multiplexer User's Guide," Groupe Schneider, August 1995.
	*"Modicon Modbus Plus Network Planning and Installation Guide," AEG Schneider Automation, April 1996.
	*"Open Modbus/TCP Specification," A. Swales, 9/3/97.
	*"MEB Installation and Programming Manual," Niobrara Research and Development Corporation, 9/24/97.
	*"MEB-TCP Installation and Programming Manual," Niobrara Research and Development Corporation, 10/1/97.
	*"Internet Protocol, Darpa Internet Program, Protocol Specification - RFC:791," Defense Advanced Research Projects Agency, September 1981.
	*"Transmission Control Protocol, Darpa Internet Program, Protocol Specification - RFC:793," Defense Advanced Research Projects Agency, September 1981.
	*"Open MODBUS/TCP Specification," A. Swales, 9/3/97.
	*"[comp.unix.programmer] Unix-Socket-FAQ For Network Programming," Vic Metcalfe, Andrew Gierth and other contributors, 1/22/98.
	*"TCP/IP Illustrated, Vol. 2, The Implementation," Gary R. Wright, W. Richard Stevens, 1997.
	*"Winsock 2 Information," Bob Quinn, 1995-1998 (last updated December 5, 1998).
	*Website Information of PROFIBUS: Technical Overview.
	*Website Information of ODVA - The Open DeviceNet's Vendor Association.
	*Website of PROFIBUS International - Welcome Page.

* A copy of the document listed was either previously submitted to the United States Patent and Trademark Office in an Information Disclosure Statement and/or Supplemental Information Disclosure Statement filed on March 29, 1999, January 26, 2000, March 16, 2000, April 10, 2000, June 2, 2000, June 16, 2000, and February 19, 2002 or cited by an Examiner in an Office Action for U.S. Application No. 09/223,349, filed December 30, 1998. The present application is a continuation application of co-pending U.S. Application No. 09/223,349, filed December 30, 1998. Pursuant to 37 CFR 1.98(d), a copy of this document is not required and therefore not enclosed.

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